



SPEC® CINT2006 Result

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Hewlett-Packard Company

SPECint®_rate2006 = 26.1

ProLiant DL580 G4
(3.4 GHz, Intel Xeon processor 7140M)

SPECint_rate_base2006 = 24.1

CPU2006 license: 3

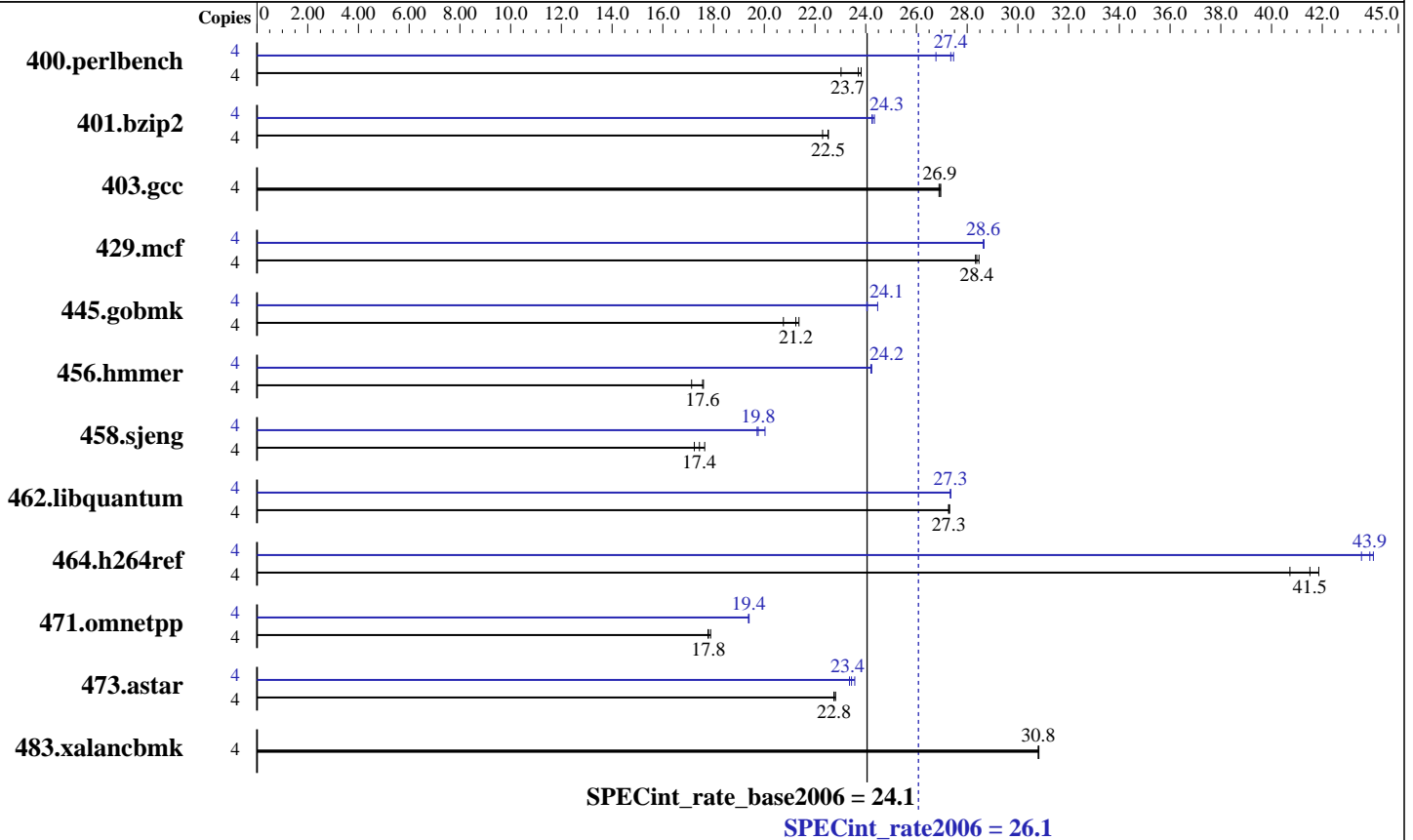
Test date: Jul-2007

Test sponsor: Hewlett-Packard Company

Hardware Availability: Aug-2006

Tested by: Hewlett-Packard Company

Software Availability: May-2007



Hardware

CPU Name: Intel Xeon 7140M
 CPU Characteristics: 3.4 GHz, 800 MHz system bus
 CPU MHz: 3400
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip, 2 threads/core
 CPU(s) orderable: 1,2,4 chips
 Primary Cache: 12 K micro-ops I + 16 KB D on chip per core
 Secondary Cache: 1 MB I+D on chip per core
 L3 Cache: 16 MB I+D on chip per chip
 Other Cache: None
 Memory: 32 GB (16x2 GB PC2-3200R)
 Disk Subsystem: 1x72 GB 15 K SAS
 Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 10 (x86_64)
 kernel 2.6.16.21-0.8-smp
 Compiler: Intel C++ Compiler for IA32/EM64T applications, Version 10.0
 Build 20070426 Package ID: 1_cc_p_10.0.023
 Auto Parallel: No
 File System: ext2
 System State: Multi-user run level 3
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: MicroQuill SmartHeap 8.1 libraries



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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	1641	23.8	1697	23.0	1648	23.7	4	1429	27.4	1460	26.8	1423	27.5
401.bzip2	4	1713	22.5	1715	22.5	1731	22.3	4	1592	24.3	1586	24.3	1591	24.3
403.gcc	4	1196	26.9	1197	26.9	1194	27.0	4	1196	26.9	1197	26.9	1194	27.0
429.mcf	4	1282	28.5	1286	28.4	1288	28.3	4	1274	28.6	1274	28.6	1273	28.7
445.gobmk	4	2022	20.8	1964	21.4	1975	21.2	4	1715	24.5	1745	24.0	1744	24.1
456.hammer	4	2120	17.6	2124	17.6	2178	17.1	4	1540	24.2	1542	24.2	1541	24.2
458.sjeng	4	2807	17.2	2775	17.4	2742	17.7	4	2455	19.7	2416	20.0	2449	19.8
462.libquantum	4	3038	27.3	3040	27.3	3035	27.3	4	3031	27.3	3031	27.3	3031	27.3
464.h264ref	4	2174	40.7	2132	41.5	2115	41.9	4	2033	43.5	2018	43.9	2011	44.0
471.omnetpp	4	1398	17.9	1405	17.8	1406	17.8	4	1290	19.4	1289	19.4	1290	19.4
473.astar	4	1234	22.8	1231	22.8	1234	22.7	4	1198	23.4	1202	23.4	1191	23.6
483.xalancbmk	4	895	30.8	896	30.8	896	30.8	4	895	30.8	896	30.8	896	30.8

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
'/usr/bin/taskset' used to bind processes to CPUs

Platform Notes

BIOS configuration:
Power Regulator Disabled
Adjacent Sector Prefetch Enabled
Hardware Prefetcher Enabled
Hyper-Threading Technology Enabled

Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32

Continued on next page



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Base Portability Flags (Continued)

462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:

-xP -ipo -O3 -static -no-prec-div

C++ benchmarks:

-xP -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/cpu2006/SmartHeap_8.1/lib -lsmartheap

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):

icc

401.bzip2: /opt/intel/cce/10.0.023/bin/icc
-L/opt/intel/cce/10.0.023/lib
-I/opt/intel/cce/10.0.023/include

456.hmmer: /opt/intel/cce/10.0.023/bin/icc
-L/opt/intel/cce/10.0.023/lib
-I/opt/intel/cce/10.0.023/include

C++ benchmarks:

icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX



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Peak Optimization Flags

C benchmarks:

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -xP -ipo -O3
-no-prec-div -ansi-alias -prefetch

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -xP -ipo -O3
-no-prec-div

403.gcc: basepeak = yes

429.mcf: -xP -ipo -O3 -static -no-prec-div -prefetch
-L/cpu2006/SmartHeap_8.1/lib -lsmartheap

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xP -O2 -ipo
-no-prec_div -ansi-alias

456.hmmmer: -prof-gen(pass 1) -prof-use(pass 2) -xP -ipo -O3 -static
-no-prec-div -unroll2 -ansi-alias

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -xP -ipo -O3 -static
-no-prec-div -unroll4

462.libquantum: Same as 458.sjeng

464.h264ref: Same as 456.hmmmer

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xP -O3 -ipo
-no-prec_div -ansi-alias -Wl,-z,muldefs
-L/cpu2006/SmartHeap_8.1/lib -lsmartheap

473.astar: Same as 471.omnetpp

483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/hp-ic10-flags.20090714.03.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/hp-ic10-flags.20090714.03.xml>



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